

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/755,190  
Source: IFW  
Date Processed by STIC: 11/2/04

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/755,190

DATE: 11/02/2004

TIME: 13:32:47

Input Set : A:\P0576P1C3.txt

Output Set: N:\CRF4\11022004\J755190.raw

```

3 <110> APPLICANT: Nikolics, Karoly
4   McFarland, Keith C.
5   Segaloff, Deborah L.
6   Seeburg, Peter H.
8 <120> TITLE OF INVENTION: Glycoprotein Hormone Receptor Molecules
10 <130> FILE REFERENCE: P0576P1C3
12 <140> CURRENT APPLICATION NUMBER: US 10/755,190
13 <141> CURRENT FILING DATE: 2004-01-09
15 <150> PRIOR APPLICATION NUMBER: US 09/877,804
16 <151> PRIOR FILING DATE: 2001-06-07
18 <150> PRIOR APPLICATION NUMBER: US 08/207,814
19 <151> PRIOR FILING DATE: 1994-03-07
21 <150> PRIOR APPLICATION NUMBER: US 07/781,153
22 <151> PRIOR FILING DATE: 1991-10-31
24 <150> PRIOR APPLICATION NUMBER: PCT/US90/02488
25 <151> PRIOR FILING DATE: 1990-05-04
27 <150> PRIOR APPLICATION NUMBER: US 07/347,683
28 <151> PRIOR FILING DATE: 1989-05-05
30 <160> NUMBER OF SEQ ID NOS: 22
32 <210> SEQ ID NO: 1
33 <211> LENGTH: 2902
34 <212> TYPE: DNA
35 <213> ORGANISM: Rattus
37 <400> SEQUENCE: 1
38   atactggctc aacctcgga gctcacactc aggctggcgg gcc atg 46
39                                     Met
40                                     1
42   ggg cgg cga gtc cca gct ctg aga cag ctg ctg gtg ctg 85
43   Gly Arg Arg Val Pro Ala Leu Arg Gln Leu Leu Val Leu
44               5                10
46   gca gtg ctg ctg ctg aag cct tca cag ctg cag tcc cga 124
47   Ala Val Leu Leu Leu Lys Pro Ser Gln Leu Gln Ser Arg
48   15                20                25
50   gag ctg tca ggg tcg cgc tgc ccc gag ccc tgc gac tgc 163
51   Glu Leu Ser Gly Ser Arg Cys Pro Glu Pro Cys Asp Cys
52               30                35                40
54   gca ccg gat ggc gcc ctg cgc tgt cct ggc cct cga gcc 202
55   Ala Pro Asp Gly Ala Leu Arg Cys Pro Gly Pro Arg Ala
56               45                50
58   ggc ctc gcc aga cta tct ctc acc tat ctc cct gtc aaa 241
59   Gly Leu Ala Arg Leu Ser Leu Thr Tyr Leu Pro Val Lys
60   55                60                65
62   gta att cca tca caa gct ttc agg gga ctt aat gag gtc 280

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/755,190

DATE: 11/02/2004

TIME: 13:32:47

Input Set : A:\P0576P1C3.txt

Output Set: N:\CRF4\11022004\J755190.raw

```

63 Val Ile Pro Ser Gln Ala Phe Arg Gly Leu Asn Glu Val
64          70          75
66 gta aaa att gaa atc tct cag agt gat tcc ctg gaa agg 319
67 Val Lys Ile Glu Ile Ser Gln Ser Asp Ser Leu Glu Arg
68 80          85          90
70 ata gaa gct aat gcc ttt gac aac ctc ctc aat ttg tct 358
71 Ile Glu Ala Asn Ala Phe Asp Asn Leu Leu Asn Leu Ser
72          95          100          105
74 gaa cta ctg atc cag aac acc aaa aac ctg cta tac att 397
75 Glu Leu Leu Ile Gln Asn Thr Lys Asn Leu Leu Tyr Ile
76          110          115
78 gaa cct ggt gct ttt aca aac ctc cct cgg tta aaa tac 436
79 Glu Pro Gly Ala Phe Thr Asn Leu Pro Arg Leu Lys Tyr
80 120          125          130
82 ctg agc atc tgt aac aca ggc atc cga acc ctt cca gat 475
83 Leu Ser Ile Cys Asn Thr Gly Ile Arg Thr Leu Pro Asp
84          135          140
86 gtt acg aag atc tcc tcc tct gaa ttt aat ttc att ctg 514
87 Val Thr Lys Ile Ser Ser Ser Glu Phe Asn Phe Ile Leu
88 145          150          155
90 gaa atc tgt gat aac tta cac ata acc acc ata ccc ggg 553
91 Glu Ile Cys Asp Asn Leu His Ile Thr Thr Ile Pro Gly
92          160          165          170
94 aat gct ttc caa ggg atg aat aac gag tct gtc aca cta 592
95 Asn Ala Phe Gln Gly Met Asn Asn Glu Ser Val Thr Leu
96          175          180
98 aaa ctg tat gga aat gga ttt gaa gaa gta caa agc cat 631
99 Lys Leu Tyr Gly Asn Gly Phe Glu Glu Val Gln Ser His
100          185          190          195
102 gca ttc aat ggg acg act cta atc tcg ctg gag cta aaa 670
103 Ala Phe Asn Gly Thr Thr Leu Ile Ser Leu Glu Leu Lys
104          200          205
106 gaa aac atc tac ctg gag aag atg cac agt gga gcc ttc 709
107 Glu Asn Ile Tyr Leu Glu Lys Met His Ser Gly Ala Phe
108 210          215          220
110 cag ggg gcc acg ggg ccc agc atc ctg gat att tct tcc 748
111 Gln Gly Ala Thr Gly Pro Ser Ile Leu Asp Ile Ser Ser
112          225          230          235
114 acc aaa ttg cag gcc ctg ccg agc cac ggg ctg gag tcc 787
115 Thr Lys Leu Gln Ala Leu Pro Ser His Gly Leu Glu Ser
116          240          245
118 att cag acg ctc atc gcc ctg tct tcc tac tca ctg aaa 826
119 Ile Gln Thr Leu Ile Ala Leu Ser Ser Tyr Ser Leu Lys
120          250          255          260
122 aca ctg ccc tcc aaa gaa aaa ttc acg agc ctc ctg gtc 865
123 Thr Leu Pro Ser Lys Glu Lys Phe Thr Ser Leu Leu Val
124          265          270
126 gcc acg ctg acc tac ccc agc cac tgc tgc gcc ttc agg 904
127 Ala Thr Leu Thr Tyr Pro Ser His Cys Cys Ala Phe Arg

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/755,190

DATE: 11/02/2004

TIME: 13:32:47

Input Set : A:\P0576P1C3.txt

Output Set: N:\CRF4\11022004\J755190.raw

```

128 275                280                285
130 aat ttg ccg aag aaa gaa cag aat ttt tca ttt tcc att 943
131 Asn Leu Pro Lys Lys Glu Gln Asn Phe Ser Phe Ser Ile
132          290                295                300
134 ttt gaa aac ttc tcc aaa caa tgc gaa agc aca gtt aga 982
135 Phe Glu Asn Phe Ser Lys Gln Cys Glu Ser Thr Val Arg
136          305                310
138 aaa gca gat aac gag acg ctt tat tcc gcc atc ttt gag 1021
139 Lys Ala Asp Asn Glu Thr Leu Tyr Ser Ala Ile Phe Glu
140          315                320                325
142 gag aat gaa ctc agt ggc tgg gat tat gat tat ggc ttc 1060
143 Glu Asn Glu Leu Ser Gly Trp Asp Tyr Asp Tyr Gly Phe
144          330                335
146 tgt tca ccc aag aca ctc caa tgt gct cca gaa cca gat 1099
147 Cys Ser Pro Lys Thr Leu Gln Cys Ala Pro Glu Pro Asp
148          340                345                350
150 gct ttc aac ccc tgt gaa gat att atg ggc tat gcc ttc 1138
151 Ala Phe Asn Pro Cys Glu Asp Ile Met Gly Tyr Ala Phe
152          355                360                365
154 ctt agg gtc ctg att tgg ctg att aat ata cta gcc atc 1177
155 Leu Arg Val Leu Ile Trp Leu Ile Asn Ile Leu Ala Ile
156          370                375
158 ttt ggc aac ctg aca gtc ctc ttt gtt ctc ctg acc agt 1216
159 Phe Gly Asn Leu Thr Val Leu Phe Val Leu Leu Thr Ser
160          380                385                390
162 cgt tat aaa ctg aca gtg ccc cgc ttc ctc atg tgt aat 1255
163 Arg Tyr Lys Leu Thr Val Pro Arg Phe Leu Met Cys Asn
164          395                400
166 ctc tcc ttt gca gac ttt tgc atg ggg ctc tac ctg ctg 1294
167 Leu Ser Phe Ala Asp Phe Cys Met Gly Leu Tyr Leu Leu
168          405                410                415
170 ctc att gcc tcc gtg gac tcc caa aca aaa ggc cag tac 1333
171 Leu Ile Ala Ser Val Asp Ser Gln Thr Lys Gly Gln Tyr
172          420                425                430
174 tat aac cac gcc ata gac tgg cag aca ggg agt ggc tgc 1372
175 Tyr Asn His Ala Ile Asp Trp Gln Thr Gly Ser Gly Cys
176          435                440
178 ggt gca gct ggc ttc ttt act gtg ttt gcc agt gaa ctc 1411
179 Gly Ala Ala Gly Phe Phe Thr Val Phe Ala Ser Glu Leu
180          445                450                455
182 tct gtc tac acc ctg acg gtt atc acc ctg gaa agg tgg 1450
183 Ser Val Tyr Thr Leu Thr Val Ile Thr Leu Glu Arg Trp
184          460                465
186 cac acc atc acc tat gct gta cag cta gac caa aag cta 1489
187 His Thr Ile Thr Tyr Ala Val Gln Leu Asp Gln Lys Leu
188          470                475                480
190 aga ctg agg cat gcc atc cca att atg ctc gga gga tgg 1528
191 Arg Leu Arg His Ala Ile Pro Ile Met Leu Gly Gly Trp
192          485                490                495

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/755,190

DATE: 11/02/2004

TIME: 13:32:47

Input Set : A:\P0576P1C3.txt

Output Set: N:\CRF4\11022004\J755190.raw

```

194  ctc ttt tct acg ctg atc gcc acg atg ccc ctt gtg ggt 1567
195  Leu Phe Ser Thr Leu Ile Ala Thr Met Pro Leu Val Gly
196              500                      505
198  atc agc aat tac atg aag gtc agc atc tgc ctc ccc atg 1606
199  Ile Ser Asn Tyr Met Lys Val Ser Ile Cys Leu Pro Met
200      510                      515                      520
202  gat gtg gaa tcc act ctg tcc caa gtc tac ata tta tcc 1645
203  Asp Val Glu Ser Thr Leu Ser Gln Val Tyr Ile Leu Ser
204              525                      530
206  atc tta atc ctc aac gtg gtg gcc ttc gtc gtc atc tgt 1684
207  Ile Leu Ile Leu Asn Val Val Ala Phe Val Val Ile Cys
208  535                      540                      545
210  gct tgc tac att agg atc tac ttt gca gtt caa aat cca 1723
211  Ala Cys Tyr Ile Arg Ile Tyr Phe Ala Val Gln Asn Pro
212      550                      555                      560
214  gag ctg aca gct cct aac aag gac aca aaa att gct aag 1762
215  Glu Leu Thr Ala Pro Asn Lys Asp Thr Lys Ile Ala Lys
216              565                      570
218  aag atg gcc atc ctc atc ttc aca gac ttc acg tgc atg 1801
219  Lys Met Ala Ile Leu Ile Phe Thr Asp Phe Thr Cys Met
220      575                      580                      585
222  gcg ccc atc tct ttc ttt gcc atc tcg gct gcc ttc aaa 1840
223  Ala Pro Ile Ser Phe Phe Ala Ile Ser Ala Ala Phe Lys
224              590                      595
226  gtg ccc ctt atc act gtc acc aac tcg aaa atc tta ctg 1879
227  Val Pro Leu Ile Thr Val Thr Asn Ser Lys Ile Leu Leu
228  600                      605                      610
230  gtc ctt ttt tat cct gtc aat tct tgt gcc aat cca ttt 1918
231  Val Leu Phe Tyr Pro Val Asn Ser Cys Ala Asn Pro Phe
232      615                      620                      625
234  ctg tat gcg atc ttc acg aag gcg ttt cag aga gat ttc 1957
235  Leu Tyr Ala Ile Phe Thr Lys Ala Phe Gln Arg Asp Phe
236              630                      635
238  ctt ctg ctg ctg agc cga ttc ggc tgc tgt aaa cgc cgg 1996
239  Leu Leu Leu Leu Ser Arg Phe Gly Cys Cys Lys Arg Arg
240      640                      645                      650
242  gcg gag ctt tac aga agg aag gaa ttt tct gca tat act 2035
243  Ala Glu Leu Tyr Arg Arg Lys Glu Phe Ser Ala Tyr Thr
244              655                      660
246  tcc aac tgc aaa aat ggc ttc cca gga gca agt aag ccg 2074
247  Ser Asn Cys Lys Asn Gly Phe Pro Gly Ala Ser Lys Pro
248  665                      670                      675
250  tcc cag gct acc ctg aag ttg tcc aca gtg cac tgt caa 2113
251  Ser Gln Ala Thr Leu Lys Leu Ser Thr Val His Cys Gln
252      680                      685                      690
254  cag ccc ata cca ccg aga gcg tta act cac tagcatt 2150
255  Gln Pro Ile Pro Pro Arg Ala Leu Thr His
256              695                      700
258  acaaaattgt gcctaaatat gttttttaaa aagtgtttta gaaaaatatt 2200

```

## RAW SEQUENCE LISTING

DATE: 11/02/2004

PATENT APPLICATION: US/10/755,190

TIME: 13:32:47

Input Set : A:\P0576P1C3.txt

Output Set: N:\CRF4\11022004\J755190.raw

```

260 tatccttagg cacttcagga gaattgtacc tgcttcagag gacggcctat 2250
262 aacacttggg cacataagtt tcaggaaggt ttagaaattt ttatagtaat 2300
264 ttaggcataa taattttttg ttgaatctaa tactaaggaa atctaagttg 2350
266 tcattttttc cgtctctgac atttttcatt tcaatcttgt gatttacatt 2400
268 gtaatctcca aatatattac ttcatagcag attgaaaatt taaactggtc 2450
270 tttgtcctca gatagtttga taaatatatt caagagatgc actgtgcagt 2500
272 gtgactgcta gccttgcag gtaaatagaa gtttcttagc catattccaa 2550
274 gtgcttcaca tgtcacacta ggaggcacag atgcaaactg tttacatcag 2600
276 tgaattctat tagccagctc tattctagag acttctatitt cccattgaca 2650
278 ctctgcttaa ctttccatct gaaggcacat gctgcatatt tgtttggctt 2700
280 acagatcatg agtacctcat ggccaggagc ccatctcagc ccatcttggt 2750
282 cctcgtctat ctcaggatct tggaaatgct acacagcaag catgcctagc 2800
284 cagttaaact ccctaaatct acacaggaaa atatttctac caccttagca 2850
286 tattgttttc gatgattaca tgctttctgt attttgcctt cctcctagta 2900
288 tc 2902
290 <210> SEQ ID NO: 2
291 <211> LENGTH: 700
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: deduced sequence
298 <400> SEQUENCE: 2
299 Met Gly Arg Arg Val Pro Ala Leu Arg Gln Leu Leu Val Leu Ala
300 1 5 10 15
302 Val Leu Leu Leu Lys Pro Ser Gln Leu Gln Ser Arg Glu Leu Ser
303 20 25 30
305 Gly Ser Arg Cys Pro Glu Pro Cys Asp Cys Ala Pro Asp Gly Ala
306 35 40 45
308 Leu Arg Cys Pro Gly Pro Arg Ala Gly Leu Ala Arg Leu Ser Leu
309 50 55 60
311 Thr Tyr Leu Pro Val Lys Val Ile Pro Ser Gln Ala Phe Arg Gly
312 65 70 75
314 Leu Asn Glu Val Val Lys Ile Glu Ile Ser Gln Ser Asp Ser Leu
315 80 85 90
317 Glu Arg Ile Glu Ala Asn Ala Phe Asp Asn Leu Leu Asn Leu Ser
318 95 100 105
320 Glu Leu Leu Ile Gln Asn Thr Lys Asn Leu Leu Tyr Ile Glu Pro
321 110 115 120
323 Gly Ala Phe Thr Asn Leu Pro Arg Leu Lys Tyr Leu Ser Ile Cys
324 125 130 135
326 Asn Thr Gly Ile Arg Thr Leu Pro Asp Val Thr Lys Ile Ser Ser
327 140 145 150
329 Ser Glu Phe Asn Phe Ile Leu Glu Ile Cys Asp Asn Leu His Ile
330 155 160 165
332 Thr Thr Ile Pro Gly Asn Ala Phe Gln Gly Met Asn Asn Glu Ser
333 170 175 180
335 Val Thr Leu Lys Leu Tyr Gly Asn Gly Phe Glu Glu Val Gln Ser
336 185 190 195
338 His Ala Phe Asn Gly Thr Thr Leu Ile Ser Leu Glu Leu Lys Glu

```

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/755,190

DATE: 11/02/2004

TIME: 13:32:48

Input Set : A:\P0576P1C3.txt

Output Set: N:\CRF4\11022004\J755190.raw